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METHOD AND APPARATUS FOR SCHEDULING FORWARD DATA BURSTS IN WIRELESS NETWORK

Abstract of the Disclosure

In a 3G CDMA2000 network, permanent virtual pipes of different data rates (153.6 kbps, 76.8 kbps, 38.4 kbps and 19.2 kbps, for example) are provisioned at a base station on the Forward Supplemental Channel (F-SCH) for the transmission of data bursts to requesting mobile terminals by allocating and grouping together a set of resources (i.e., contiguous Walsh codes, contiguous ASIC real estate, etc.). Data bursts arriving from the network are scheduled onto timeslots on all the pipes in a manner such that at least one burst segment of each active burst is scheduled into a timeslot on the highest data rate pipe. The other burst segments of a burst are scheduled onto all the pipes so they migrate through the various rate pipes in order to give all bursts opportunities on the higher rate pipes.